

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Abdelsalam A. Heddaya, Kevin T. Lewis, Sulaiman A. Mirdad,  
David J. Yates, and Ian C. Yates

Continuation Application of

Application No.: 09/404,776

Filed: September 24, 1999

For: EXTENDING NETWORK SERVICES USING MOBILE AGENTS

<p>Date: <u>9-15-03</u></p> <p>EXPRESS MAIL LABEL NO. <u>EV05203/269 US</u></p>
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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or  
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):  
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.  
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
  - ☐ Copies of the cited references are enclosed.
  - ☒ Copies of cited references are enclosed except those entered in prior application, U.S. Application No. 09/404,776, to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
  - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
  - ☐ The "concise explanation" requirement (non-English references) for reference(s) [       ] under 37 CFR 1.98(a)(3) is satisfied by:
    - ☐ the explanation provided on the attached sheet.
    - ☐ the explanation provided in the Specification.
    - ☐ submission of the enclosed International Search Report.
    - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
    - ☐ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

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Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Carole M. Fleming  
Caroline M. Fleming  
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Telephone: (978) 341-0036  
Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated: 9/15/03

PTO-1449 REPRODUCED  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <b>August 28, 2003</b>  (Use several sheets if necessary)	ATTORNEY DOCKET NO. 2357.1015-005		APPLICATION NO. Continuation of : 09/404,776	
	APPLICANT Abdelsalam A. Heddaya <i>et al.</i>			
	FILING DATE	CONFIRMATION NO.	GROUP	

U.S. PATENT DOCUMENTS				
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AA	US 6,473,791	10/2002	Al-Ghosein <i>et al.</i>
	AB	US 6,279,001	08/2001	DeBettencourt <i>et al.</i>
	AC	US 6,256,771	07/2001	O'Neill <i>et al.</i>
	AD	US 6,157,941	12/2000	Verkler <i>et al.</i>
	AE	US 6,055,562	04/2000	Devarakonda <i>et al.</i>
	AG	US 6,014,698	11/2000	Griffiths, Michael John
	AG	US 5,850,517	12/1998	Verkler <i>et al.</i>
	AH	US 6,327,622	12/2001	Jindal <i>et al.</i>
	AI	US 5,774,660	06/1998	Brendel <i>et al.</i>
	AJ	US 6,175,869	01/2001	Ahuja <i>et al.</i>
	AK	US 6,148,327	11/000	Whitebread <i>et al.</i>
	AA2	US 6,249,801	06/2001	Zisapel <i>et al.</i>
	AB2	US 6,317,794	11/2001	Papierniak <i>et al.</i>
	AC2	US 6,128,660	10/2000	Grimm <i>et al.</i>
	AD2	US 6,173,311	01/2001	Hassett <i>et al.</i>
	AE2	US 5,748,897	06/1998	Katiyar, Dinesh
	AF2			
	AG2			
	AH2			
	AI2			
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	AA3			
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	AC3			

EXAMINER	DATE CONSIDERED
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PTO-1449 REPRODUCED

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

**August 28, 2003**

(Use several sheets if necessary)

ATTORNEY DOCKET NO.  
2357.1015-005

APPLICATION NO.  
Continuation of : 09/404,776

APPLICANT  
Abdelsalam A. Heddaya *et al.*

FILING DATE

CONFIRMATION NO.

GROUP

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
	AL	98/17039	23AP98	WO		
	AM					
	AN					
	AO					
	AP					
	AO					
	AL2					
	AM2					
	AN2					
	AO2					
	AP2					
	AQ2					
	AL3					
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EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <b>August 28, 2003</b>  (Use several sheets if necessary)	ATTORNEY DOCKET NO. 2357.1015-005		APPLICATION NO. Continuation of : 09/404,776	
	APPLICANT Abdelsalam A. Heddaya <i>et al.</i>			
	FILING DATE	CONFIRMATION NO.	GROUP	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR		Yemini, Y., <i>et al.</i> , "Towards Programmable Networks," <i>IFIP/IEEE International Workshop on Distributed Systems: Operations and Management</i> , October 1996 (1996-10), XP002130605.
AS		Bauman, J., <i>et al.</i> , "Mole-Concepts of a Mobile Agent System," <i>World Wide Web</i> , 1998, Baltzer, Netherlands, 1:3, pp. 123-137, XP002130606.
AT		Heddaya, A., <i>et al.</i> , "WebWave: Globally Load Balanced Fully Distributed Caching of Hot Published Documents," <i>International Conference On Distributed Computing Systems</i> , XX, XX, pp. 160-168, XP002075421.
AU		Mourad, A., <i>et al.</i> , "Scalable Web Server Architectures," <i>Proceedings IEEE Symposium On Computers and Communications</i> , 1 July 1997 (1997-07-01), SP000100852, Abstract.
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EXAMINER	DATE CONSIDERED
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